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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/442,756	11/18/1999	REINHARD BEUTH	9350-0144-0	6353	
7	590 05/23/2002				
Oblon Spivak Mcclelland Maier & Neustadt PC Fourth Floor 1755 Jefferson Davis Highway			EXAMINER 5.7		
			HON, SOW FUN		
Arlington, VA	22202		ART UNIT	PAPER NUMBER	
			1772	1/	
			DATE MAILED: 05/23/2002	16	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application	No.	Applicant(s	)
Office Action Summary		09/442,756	•	BEUTH ET	AL.
		Examiner	·	Art Unit	
		Sow-Fun Ho	n	1772	:
	The MAILING DATE of this communication a	ppears on the co	ver sheet with t	he corresponden	ce address
Period fo					
THE - External control	IORTENED STATUTORY PERIOD FOR REF MAILING DATE OF THIS COMMUNICATION insions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. It is period for reply specified above is less than thirty (30) days, a reply provided to period for reply is specified above, the maximum statutory period to reply within the set or extended period for reply will, by state reply received by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, reply within the statutor od will apply and will ex tute, cause the applicat	however, may a reply minimum of thirty (30 pire SIX (6) MONTHS ion to become ABANI	be timely filed  )) days will be consider from the mailing date of the constant of the cons	of this communication.
1)🛛	Responsive to communication(s) filed on 2	5 February 2002			
2a)⊠	<u> </u>	This action is no			
3)□	Since this application is in condition for allo			s, prosecution as	s to the merits is
, — Disposit	closed in accordance with the practice undion of Claims				
·	Claim(s) <u>2,4-12 and 14-29</u> is/are pending in	the application.	,		
٠,١	4a) Of the above claim(s) is/are withd				
5)	, , , , , , , , , , , , , , , , , , , ,				
6)⊠	Claim(s) <u>2,4-12 and 14-29</u> is/are rejected.				
7)	Claim(s) is/are objected to.				
8)□	Claim(s) are subject to restriction and	d/or election requ	ıirement.		
Applicat	ion Papers	•			
9)□	The specification is objected to by the Exami	ner.			
10)	The drawing(s) filed on is/are: a) ac	cepted or b)☐ ob	jected to by the	Examiner.	
	Applicant may not request that any objection to	the drawing(s) be	held in abeyanc	e. See 37 CFR 1.8	35(a).
11)	The proposed drawing correction filed on	is: a)□ app	oved b)□ disa	pproved by the E	xaminer.
	If approved, corrected drawings are required in		e action.		
12)	The oath or declaration is objected to by the	Examiner.			
Priority	under 35 U.S.C. §§ 119 and 120				
13)⊠	Acknowledgment is made of a claim for fore	ign priority unde	r 35 U.S.C. § 1	19(a)-(d) or (f).	
a)	All b) ☐ Some * c) ☐ None of:				
	1. Certified copies of the priority docume	ents have been r	eceived.		
	2. Certified copies of the priority docume	ents have been r	eceived in App	ication No	<u></u> .
* ;	3. Copies of the certified copies of the page application from the International See the attached detailed Office action for a limit	Bureau (PCT Ru	ıle 17.2(a)).		ional Stage
14)[]	Acknowledgment is made of a claim for dome	estic priority unde	er 35 U.S.C. § 1	19(e) (to a provi	sional application).
	a)  The translation of the foreign language   Acknowledgment is made of a claim for dome	•			
Attachmer	•	• •	-		
2) Notic	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s	4) 5) 	Notice of Info	nmary (PTO-413) Pa rmal Patent Applicati	

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### **DETAILED ACTION**

### Response to Amendment

### Rejections Withdrawn

- 1. The 35 U.S.C. 112, 2<sup>nd</sup> paragraph rejection in Paper # 14, paragraph 1 (12/06/01) of claims 18, 2, 4-12, 17 has been withdrawn due to Applicant's amendment in Paper # 15 (02/25/02).
- 2. The 35 U.S.C. 103(a) rejection in Paper # 14, paragraph 4 (12/06/01) of claims 18, 2, 4-12, 17over Douchet et al. in view of Yu has been withdrawn due to Applicant's clarification in Paper # 15 (02/25/02).

## Rejections Repeated

3. The 35 U.S.C. 103(a) rejection of claims 14-16 over Reimann et al. in view of Yamamoto et al. has been repeated for the same reasons previously of record in Paper # 14, paragraph 5 (12/06/01).

### New Rejections

# Claim Rejections - 35 USC § 103

4. Claims, 4-7, 9-12, 17-22, 24-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bouilloux et al.

Bouilloux et al. has pipes such as for cooling, situated under the hood of automobiles (column 1, lines 30-35) made from compositions comprising polyamide in amounts around 40 to 60 parts (column 14, lines 20-68), and LDPE in amounts around 40 parts. The compositions are

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taught to have a flexural Other polymers taught in lieu of LDPE are ethylene-propylene rubbers, SEBS, EPDM and ethylene-alkyl (meth)acrylate copolymers (column 5, lines 5-50) grafted with maleic anhydride (column 6, lines 10-15). Polyamide 12 (12-aminodecanoic acid condensation product) is taught (column 2, lines 50-68). Polyamide 6,3-T is part of the polyamide condensation product family. Since Bouilloux et al. teaches against the use of plasticizer which leaches out (exudes out), since there is no mention of the use of processing aids, and since the pipes are taught to carry coolant (used for cooling) which contains various forms of alcohol, it can be inferred that the composition would comprise not more than 1.6 to 2 % by weight of

5. Claim 23 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bouilloux et al. as applied to claims 2, 4-7, 9-12, 17-22, 24-28 above, and further in view of Jadamus (US 4,755,552).

extractables. It is well known in the art to make laminated corrugated flexible pipes.

Bouilloux et al. teaches the pipe with the polyamide composition, but fails to teach the use of polyalkenylene in lieu of LDPE as the flexible component.

Jadamus et al. has pipes (column 6, lines 15-25) made out of 80 to 98 % polyamide and 20 % polyalkenylene (polyalkenamer) (column 4, lines 20-30). Maleic anhydride is grafted on the polyalkenylene (column 3, lines 60-65). Jadamus et al. teaches that the polyalkenylene is an alternative to polyethylene (column 1, lines 35-45), thus teaching that it can be used in lieu of LDPE (low density polyethylene). In addition, Jadamus et al. teaches that the polyalkenylenes produce synergistic effects (column 4, lines 50-60).

Because Jadamus et al. teaches that polyalkenylene is an alternative to polyethylene and that it produces synergistic effects, it would have been obvious to one of ordinary skill in the art

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to have used it in lieu of the LDPE in the invention of Bouilloux et al. in order to obtain a pipe with synergistic effects on the desired properties

### Response to Arguments

- 6. Applicant's arguments with respect to claims 2, 4-7, 9-12, 17-18 have been considered but are moot in view of the new ground(s) of rejection.
- Applicant's arguments in Paper # 15 (02/25/02) with respect to claims 14-16 have 7. been fully considered but they are not persuasive. Applicant argues that Reimann et al. is only concerned with the impact strength and does not disclose the flexibility of the product. Applicant is respectfully reminded that Yamamoto et al. merely demonstrates that compositions comprising the claimed polymer components have the claimed tensile modulus of elasticity.

Yamamoto et al. teaches that the tensile modulus of elasticity of the thermoplastic elastomer composition of 30 to 500 parts by weight of a polyolefin component and 10 to 500 parts by weight of a polyamide ('503, column 3, lines 25-45) is 361 to 453 N/mm<sup>2</sup> (3690 to 4621 kgf/cm<sup>2</sup>) ('503, column 17, lines 55-60). The polyolefin component is taught to be ethylenemethyl acrylate copolymers, ethylene-ethyl acrylate copolymers, ethylene-propyl acrylate copolymers, ethylene-butyl acrylate copolymers ('503, column 5, lines 60-68 and column 6, lines 1-5). The polyamide component is taught to be nylon 612, nylon 11 and nylon 12 ('503, column 6, lines 30-40).

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Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication should be directed to Sow-Fun Hon whose telephone number is (703)308-3265. The examiner can normally be reached Monday to Friday from 9:00 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Harold Pyon, can be reached on (703)308-4251. The fax phone number for the organization where this application or proceeding is assigned is (703)872-9311.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)308-0661.

PH 05/7/02

HAROLD PYON
SUPERVISORY PATENT EXAMINER

5/20/02

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